

## Template synthesis of tetrakis-triazolylthiacalix[4]arene in the cone conformation and supramolecular structure of its hexanuclear complex with Ag(I)

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### Abstract

A stereoselective synthesis of the cone stereoisomer of thiacalix[4]arene bearing four triazolyl coordinating sites at the lower rim, **2**, has been achieved by the 1,3-dipolar cycloaddition of p-nitrophenylazide to tetrakis-(propargyloxy) thiacalix[4]arene, **1**, in presence of copper(I) iodide. A combination of **2** with AgNO<sub>3</sub> leads to the formation of hexanuclear silver(I) complex with M:L ratio of 6:2. The latter forms a 3D  $\pi$ -bonded molecular network in the crystalline phase. © ISUCT Publishing.

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### Keywords

1,2,3-triazole, 1,3-dipolar cycloaddition reaction, Template synthesis, Thiacalix[4]arenes